CONTENTS OF VOLUME IX.

NUMBER I.

PAGE

PROBLEM OF THE MONTICULIPOROIDEA. Frederick W. Saerdson - - 1

THE EXCURSION TO THE PYRENEES IN CONNECTION WITH THE EIGHTH INTERNATIONAL GEOLOGICAL CONGRESS Frank Dawson Adams - 28

VALLEYS OF SOLUTION IN NORTHERN ARKANSAS. A. H. Purdue - - 47

STUDIES FOR STUDENTS: The Structure of Meteorites. I. O. C. Farrington 51

EDITORIAL - - - - - - - - - - - - - - - - 67

REVIEWS: Summaries of Current North American Pre-Cambrian Literature, by W. C. Leith, 79; The Norwegian Polar Expedition, 1893 to 1896; Scientific Results: edited by Fridtjof Nansen, Vol. I (R. D. S.), 87; The Pleistocene Geology of the South Central Sierra Nevada, with especially Reference to the Origin of the Yosemite Valley, by Henry Ward Turner (R. D. S.), 90; A Record of the Geology of Texas for the Decade ending December 31, 1896, by Frederic W. Simonds (J. C. Branner), 91.

RECENT PUBLICATIONS - - - - - - - - - - - - 92

NUMBER II.

ON THE ORIGIN OF THE PHENOCRYSTS IN THE PORPHYRITIC GRANITES OF GEORGIA. Thomas L. Watson - - - - - - - - - 97

CERTAIN PECULIAR ESKERS AND ESKER LAKES OF NORTHEASTERN INDIANA. Charles R. Dryer - - - - - - - - - - - 123

CORRELATION OF THE KINDERHOOK FORMATIONS OF SOUTHWESTERN MISSOURI. Stuart Weller - - - - - - - - - - - 130

PROBLEM OF THE MONTICULIPOROIDEA. II. F. W. Sardeson. - - - 149

STUDIES FOR STUDENTS: The Structure of Meteorites. II. O. C. Farrington 174

EDITORIAL - - - - - - - - - - - - - - - - 191

REVIEWS: Zeiller's Flora of the Carboniferous Basin of Heraclea: An Illustration of Paleozoic Plant Distribution (David White), 192; Géologie et minéralogie appliquées; Les mineraux utiles et leurs gisements, par Henri Charpentier (J. C. Branner), 198; Handbuch der Seenkunde; Allgemeine Limnologie, by F. A. Forel (R. D. S.), 199; A Preliminary Report on the Artesian Basins of Wyoming, by Wilbur C. Knight (R. D. S.), 200. Die vierte Eiszeit im Bereiche der Alpen, von Albrecht Penck (R. D. S.), 202.

RECENT PUBLICATIONS - - - - - - - - - - - - 203

111180

MAR 12 1904

OCT 22 1968

NUMBER III.

PAGE

THE CLASSIFICATION OF THE WAVERLY SERIES OF CENTRAL OHIO. Charles S. Prosser - 205

THE USE OF BEDFORD AS A FORMATIONAL NAME. Edgar R. Cumings - 232

ON THE USE OF THE TERM "BEDFORD LIMESTONE." C. E. Siebenthal - 234

NITRATES IN CAVE EARTHS. Henry W. Nichols - 236

DERIVATION OF THE TERRESTRIAL SPHEROID FROM THE RHOMBIC DODECAHEDRON. Charles R. Keyes - 244

THE VARIATIONS OF GLACIERS. VI. Harry Fielding Reid. - 250

PRODROMITES, A NEW AMMONITE GENUS FROM THE LOWER CARBONIFEROUS. James Perrin Smith and Stuart Weller - 255

EDITORIAL - 267

REVIEWS: The Norwegian North Polar Expedition, 1893–1896: Scientific Results, Vol. II, edited by Fridtjof Nansen (T. C. C.), 273; Meteorological Observations of the Second Wellman Expedition, by Evelyn B. Baldwin, Observer, Weather Bureau; Report of the Chief of the Weather Bureau, United States Department of Agriculture, 1899–1900, Part VII (T. C. C.), 276; The Oriskany Fauna of the Becraft Mountain, Columbia County, N. Y., by J. M. Clark (S. W.), 278.

RECENT PUBLICATIONS - 280

NUMBER IV.

GLACIAL AND INTERGLACIAL BEDS NEAR TORONTO. A. P. Coleman - 285

PORTABLE REPRESENTATIVES OF PRE-WISCONSIN TILL IN SOUTHEASTERN MASSACHUSETTS. Myron L. Fuller - 311

SKETCH OF THE GEOLOGY OF THE SALINAS VALLEY, CALIFORNIA. Edward Hoit Nutter - 330

NOTES ON THE FOSSILS FROM THE KANSAS-OKLAHOMA RED-BEDS. Charles Newton Gould - 337

ILLUSTRATED NOTE ON A MINIATURE OVERTHRUST FAULT AND ANTICLINE. A. H. Purdue - 341

THE MORRISON FORMATION OF SOUTHEASTERN COLORADO. Willis T. Lee - 343

EDITORIAL - 353

REVIEWS: Department of Geology and Natural Resources of Indiana, Twenty-fifth Annual Report, by W. S. Blatchley, State Geologist (C. E. Siebenthal), 354; Summary Report of the Geological Survey Department [of Canada] for the year 1900 (C.), 357; Aus den Hochregionen des Kaukassus, by Gottfried Merzbacher (J. P. I.), 359; The Geological History of the Rivers of East Yorkshire, by F. R. Cowper Reed (T. C. C.), 360; The Conveyance of Water in Irrigation Canals, Flumes, and Pipes,

PAGE

by Samuel Fortier (G. B. H.), 361; The University Geological Survey of Kansas, Vol. IV., Paleontology, Part II, by Samuel W. Williston (S. W.), 362; Profiles of Rivers in the United States, by Henry Gannett (G. B. H.), 363; Yearbook of the United States Department of Agriculture for 1900 (C.), 363.

RECENT PUBLICATIONS - - - - - - - - - - - - - 364

NUMBER V.

ON A POSSIBLE FUNCTION OF DISRUPTIVE APPROACH IN THE FORMATION OF METEORITES, COMETS, AND NEBULÆ. T. C. Chamberlin - - - 369

STUDIES FOR STUDENTS: THE CONSTITUENTS OF METEORITES, I. O. C FARRINGTON - - - - - - - - - - - - - - 393

THE PALEOZOIC FORMATIONS OF ALLEGANY COUNTY, MARYLAND. Charles S. Prosser - - - - - - - - - - - - - - 409

THE DEPOSITION OF COPPER BY SOLUTIONS OF FERROUS SALTS. H. C. Biddle - - - - - - - - - - - - - - - 430

EVIDENCE OF A LOCAL SUBSIDENCE IN THE INTERIOR. John T. Campbell - 437

EDITORIAL - - - - - - - - - - - - - - - - 439

REVIEWS: Summaries of Current North American Pre-Cambrian Literature (C. K. Leith), 441; On Rival Theories of Cosmogony, by O. Fisher (T. C. C.), 458; Glacial Sculpture of the Bighorn Mountains, Wyoming, by François E. Matthes (R. D. S.), 465; Annual Report of the Board of Regents of the Smithsonian Institution (C.), 466.

RECENT PUBLICATIONS - - - - - - - - - - - - - 467

NUMBER VI.

THE RIVER SYSTEM OF CONNECTICUT. William Herbert Hobbs - - - - 469

COMPOSITE GENESIS OF THE ARKANSAS VALLEY THROUGH THE OZARK HIGHLANDS. Charles R. Keyes - - - - - - - - - - - 486

A SECOND CONTRIBUTION TO THE NATURAL HISTORY OF MARL. Charles A. Davis - - - - - - - - - - - - - - - - - 491

PERKNITE (LIME-MAGNESIA ROCKS). H. W. Turner - - - - - - - 507

THE BORDER-LINE BETWEEN PALEOZOIC AND MESOZOIC IN WESTERN AMERICA. James Perrin Smith - - - - - - - - - - - 512

STUDIES FOR STUDENTS: THE CONSTITUENTS OF METEORITES, II. Oliver C. Farrington - - - - - - - - - - - - - - - 522

MEMORIAL - - - - - - - - - - - - - - - - 533

EDITORIAL - - - - - - - - - - - - - - - - 535

PAGE

REVIEWS: Three Phases of Modern Paleontology; (I) Uintacrinus: Its Structure and Relations, by Frank Springer; (II) Oriskany Fauna of Becraft Mountains, by John M. Clark; (III) Stratigraphical Succession of the Fossil Floras of the Pottsville Formation in the Southern Anthracite Coal Field, by David White (Charles R. Keyes), 539; Iowa Geological Survey, by Samuel Calvin, State Geologist; A. G. Leonard, Assistant State Geologist; Annual Report for 1900 (H. F. B.), 547; Beach Structures in the Medina Sandstone, by H. L. Fairchild (N. M. F.), 549; The Beaufort's Dyke, off the Coast of the Mull of Galloway, by H. G. Kinahan (N. M. F.), 551.

RECENT PUBLICATIONS - - - - - - - - - - - - 552

NUMBER VII.

INDIVIDUALS OF STRATIGRAPHIC CLASSIFICATION. Bailey Willis - - - 557

THE DISCRIMINATION OF TIME-VALUES IN GEOLOGY. Henry Shaler Williams 570

VARIATIONS OF TEXTURE IN CERTAIN TERTIARY IGNEOUS ROCKS OF THE GREAT BASIN. J. E. Spurr - - - - - - - - - - 586

THE FOYAITE-IJOLITE SERIES OF MAGNET COVE: A CHEMICAL STUDY IN DIFFERENTIATION. Henry S. Washington - - - - - - 607

THE PRE-TERRESTRIAL HISTORY OF METEORITES. Oliver C. Farrington - 623

EDITORIAL - - - - - - - - - - - - - - - 633

REVIEWS: Zinc and Lead Region of North Arkansas, by John C. Branner (C. R. Keyes), 634; Texas Petroleum, by William Battle Phillips (C. E. S.), 637; Lessons in Physical Geography, by Charles R. Dryer (N. M. F.), 638; Some Notes Regarding Vaerdal: The Great Landslip, by Dr. Hans Reusch (N. M. F.), 639; Geological Map of West Virginia, by I. C. White, 640.

RECENT PUBLICATIONS - - - - - - - - - - - 642

NUMBER VIII.

THE FOYAITE-IJOLITE SERIES OF MAGNET COVE: A CHEMICAL STUDY IN DIFFERENTIATION, II. Henry S. Washington - - - - - - 645

PECULIAR EFFECTS DUE TO A LIGHTNING DISCHARGE ON LAKE CHAMPLAIN IN AUGUST, 1900. William Hallock - - - - - - - - - 671

STUDY OF THE STRUCTURE OF FULGURITES. Alexis A. Julien - - - 673

PHYSIOGRAPHY OF THE BOSTON MOUNTAINS, ARKANSAS. A. H. Purdue - 694

THE DISCOVERY OF A NEW FOSSIL TAPIR IN OREGON. William J. Sinclair - 702

THE FORMATION AS THE BASIS FOR GEOLOGIC MAPPING. Edwin C. Eckel - 708

PAGE

GLACIAL WORK IN THE WESTERN MOUNTAINS IN 1901. Rollin D. Salisbury 718

REVIEWS: Preliminary Description of the Geology and Water Resources of the Southern Half of the Black Hills and Adjoining Regions in South Dakota and Wyoming, by N. H. Darton (George D. Hubbard), 732; The High Plains and Their Utilization, by Willard D. Johnson (George D. Hubbard), 734; The Bauxite Deposits of Arkansas, by Charles Willard Hayes (Thomas L. Watson), 737.

RECENT PUBLICATIONS - - - - - - - - - - - - 740

INDEX TO VOLUME IX - - - - - - - - - - - - 743